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ABSTRACT OF THE DISCLOSURE

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Method of producing spring wires shaped as a cylinder. The wire includes at least one first plurality of layers of wound fibres, the layers being disposed on top of one another and impregnated with a matrix. The first plurality of layers includes at least two stacked layers of fibres which are wound in opposing directions along two coaxial helices around the same axis to the left and right thereof respectively. The tangents to the two helices together with the axis (10) form respectively two angles having values β_{x-1} and β_x which are respectively equal to $\Delta + k\gamma$ and $-\Delta - k\gamma$, γ being a function of the value of the modulus of elasticity for the spring to be produced and k being a factor of between 0 and 1. The method is suitable for the production of helical cylindrical-type spring wires for the suspension systems of motor vehicles.